

STATE BUILDING CODE COUNCIL

Washington State Energy Code Development Standard Energy Code Proposal Form

Jan 2022

								Log No. <u>21-GP3-015</u>		
Code being a	mended:	Commercial	Provisions	⊠ Res	dential Provisi	ions				
Code Section	# <u>R403.5.5</u>									
Brief Descript	tion:									
Adds	additional e	exceptions to wat	er heater locati	ion restri	ctions.					
•	_	ext: (Copy the exister text to be delet	_	the Integ	rated Draft, lir	nked ak	pove, and the	n use <u>underline</u> for		
	R403.5.5 Water heater installation location. Service hot water systems shall be installed within the building thermal envelope.									
EXCE	EXCEPTION <u>S</u> :									
<u>1.</u> Wh	$\underline{1.}$ Where the hot water system efficiency is greater than or equal to 2.0 UEF.									
<u>2. Ta</u>	2. Tankless water heaters.									
3. Gas heat pump water heaters intended for exterior installation.										
Purpose of co	de change:									
allow	Since the WSEC-R is being revised to address EPCA issues, the 2021 WSEC-R will most likely be expanded to allow electric resistance and gas appliances in more applications. Related sections need to be updated to reflect this. Also, as written the WSEC-R runs afoul with EPCA by not allowing certain gas heat pump water heaters.									
The in stand signif year,	Proposed code change text permits water heaters to be installed per manufacturer's installation instructions. The intent of this section is to capture energy savings from standby losses. Tankless water heaters have minimal standby losses – they can be appropriately installed in garages (or even outdoors in mild climates) without significant energy penalty. Likewise, certain gas heat pump water heaters expected to be on the market within a year, are designed for outdoor installation by the manufacturer, have minimal standby losses, and would be precluded from use by the WSEC-R as written – which would run afoul with EPCA.									
Your amendn	nent must m	neet one of the fo	ollowing criteria	a. Select a	t least one:					
Addresses a critical life/safety need.					Consistency with state or federal regulations.					
The amendment clarifies the intent or application of the code.					Addresses a unique character of the state.					
Addresses a specific state policy or statute. (Note that energy conservation is a state policy)					Corrects errors and omissions.					
Check the bu	ilding types	that would be im	pacted by your	r code cha	inge:					
Single fan	nily/duplex/	townhome	Multi-fami	ily 1 – 3 s	tories	[Multi-fam	ily 4 + stories		

Commercial / Retail		Institutional		Industrial		
Your name	Kevin Duell		Email address	kevin.duell@nwnatural.com		
Your organization	NW Natural		Phone number	503-610-7990		
Other contact name	lan Casey, NW Nat	tural				
Economic Impa	ct Data Sheet					
Is there an econor		Yes No				
Briefly summarize yo you answered "No"		•	nd benefits to buildin	ng owners, tenants, and businesses. I		
This propose water heate		r construction costs by	allowing more flexibi	lity for the installation of certain		
•		ruction cost (or cost sa these Inputs. Webinar		nange proposal? (See OFM Life Cycle found <u>Here</u> and <u>Here</u>)		
\$Click here to ente	er text./square foot	(For residential project	ts, also provide \$Clic	k here to enter text./ dwelling unit)		
Show calculations he	ere, and list sources	for costs/savings, or at	tach backup data pag	ges		
Costs will va	ary widely dependin	g on the application. Tl	nere is insufficient tim	ne to generate these calculations.		
Provide your best es	stimate of the annu	al energy savings (or ac	Iditional energy use)	for your code change proposal?		
Click here to enter	text.KWH/ square	foot (or) Click here to	enter text.KBTU/ squ	are foot		
(For residential proj	ects, also provide C	lick here to enter text	KWH/KBTU / dwellin	g unit)		
Show calculations he	ere, and list sources	for energy savings esti	mates, or attach back	sup data pages		
Energy savir	ngs should be nearly	, equivalent.				
List any code enforc permit application:	e ment time for add	litional plan review or ii	nspections that your p	proposal will require, in hours per		
Small Business Impo	act. Describe econo	mic impacts to small bu	sinesses:			
This should	reduce economic in	npact to small businesse	es.			

Housing Affordability. Describe economic impacts on housing affordability:

This should reduce economic impact on housing affordability.

Other. Describe other qualitative cost and benefits to owners, to occupants, to the public, to the environment, and to other stakeholders that have not yet been discussed: